

ABSTRACT**METHOD OF OPERATION OF A COMMUNICATION DEVICE AND
CORRESPONDING COMMUNICATION DEVICE**

- 5 The present invention relates to methods of operation of a communication device and to corresponding communication devices.

10 In particular the invention relates to a first method of operation of a communication device, wherein some pilot bits associated with data bits are transmitted with a power at least partly dependent on the data rate at which the data bits are transmitted. At the base station, power control is carried out only on pilot bits with constant power, whereas channel estimation is carried out on all pilot bits.

- 15 The invention also relates to a second method of operation of a communication device wherein all pilot bits associated with data bits are transmitted with one of a plurality of powers, at least partly dependent on the data rate at which the data bits are transmitted. At the base station a power control process compares the received signal with a plurality of thresholds,
20 and sends a power control signal to the communication device based on the result of the comparison.